



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/810,437

03/19/2001

Tsutomu Matsumoto

010369

7204

23850

7590

03/05/2007

ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP  
1725 K STREET, NW  
SUITE 1000  
WASHINGTON, DC 20006

EXAMINER

SON, LINH L D

ART UNIT

PAPER NUMBER

2135

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

3 MONTHS

03/05/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

09/810,437

Applicant(s)

MATSUMOTO ET AL.

Examiner

Linh LD Son

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 November 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,4-6,9,10 and 15-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 4-6, 9-10, and 15-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. This Office Action is responding to the RCE received on 11/27/06.
2. Claims 2-3, 7-8, 11-14 are canceled.
3. Claims 1, 4-6, 9-10, and 15-20 are pending.

### *Claim Rejections - 35 USC § 103*

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 4-6, 9/5, 10/5, 15, 16/5, 17/5, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maes et al, US/6016476, hereinafter "Maes", in view of Gifford, US/6205437B1, US Publication No. 20010037308, and further in view of Pathmasuntharan et al, US/6955299, hereinafter "Pathmasuntharan".

6. As per claim 1:

Maes discloses a card settlement method using a mobile information terminal provided with an IC card read/write function (Col 5 lines 25-35) and a wireless communication function for the settlement of a transaction in a business establishment

Art Unit: 2135

(Col 6 lines 9-27), comprising: a step of having a customer using a business establishment wirelessly connect to an authorization server through a network by the mobile information terminal, a step of having the customer load his or her IC card in the mobile information terminal, read the information stored in this IC card, and send it to the authorization server, a step of having the authorization server decide on the authorization of the current transaction from authentication information stored in the IC card and proving the legitimacy of the card, settlement information containing at least a card number, and personal identification information input from the customer and proving the legitimacy of the customer, a step of sending a temporary password issued from a settlement server to the mobile information terminal for display after the authorization of the current transaction (Col 6 line 56 to Col 7 line 35) (Temporary password is the digital certificate), a step of inputting the temporary password and the current transaction information from a business establishment side settlement terminal and sending it to the settlement server, and a step of having the settlement server settle the transaction with the password and the transaction information satisfying the settlement conditions (Col 15 lines 1-25), wherein the temporary password is valid for only a limited period of time (Col 10 lines 1-10); and further the settlement of a transaction in a business establishment is carried out directly by the customer's mobile information terminal (Col 15 lines 1-25). "Wherein the mobile information terminal is a mobile phone having a contact type IC card and a noncontact type IC card built into the mobile telephone." In (Col 5 lines 25-35 and Col 14 lines 1-16)

Art Unit: 2135

However, Maes is silent on the temporary password is valid for only one transaction.

Nevertheless, Gifford disclose a single-use payment order that is valid for only one transaction in (See abstract and Col 2: 60-67). The single-use payment order is the temporary password in the invention.

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Maes' invention to implement the one-time payment order in Gifford's invention as a password to provide a unique authentication for every transaction.

Furthermore, Neither Maes or Gifford teaches of a noncontact type IC card built into the mobile telephone.

Nevertheless, Pathmasuntharan discloses the "non-contact type and contact type IC card built into the mobile telephone as an electronic wallet to purchase goods in (Col 1 lines 33-50, and Col 3 lines 50-67).

Therefore, it would also have been obvious at the time of the invention was made for one having ordinary skill in the art to modify both Maes' and Gifford's invention to incorporate Pathmasuntharan's teaching to provide a fast and user friendly card reading method for good purchasing.

7. As per claim 4:

Maes discloses a card settlement system using a mobile information terminal as set forth in either one of claims 1 to 3, wherein, further, after said settlement is executed

Art Unit: 2135

by said settlement server, a receipt is issued from said settlement terminal on business establishment side (Col 11 lines 41-45).

8. As per claims 5:

Maes discloses a card settlement system wherein a settlement terminal installed in a business establishment is connected through a settlement network with an authorization server and a settlement server retained by a card company or a bank (Col 6 lines 61-67, and Col 14 lines 61-62), and a customer can perform the settlement by using a card, providing following means of: an application server provided in the mobile information terminal, and providing a read/write function of an IC card for performing a read/write operation of information with respect to the IC card with authentication information proving a legitimacy of the card, personal identification information proving the legitimacy of the customer and settlement information containing at least a card number stored therein, a storage of an application software for a specific service (Col 5 line 24), a control of a screen of said mobile information terminal and a gateway function between the network of said mobile information terminal and said settlement network, and a password issuance function provided in said settlement server issuing a temporary password based on settlement information input from said IC card through the network of said mobile information terminal, said application server and said settlement network (Col 6 line 56 to Col 7 line 35); wherein the temporary password is valid for only a limited period of time (Col 10 lines 1-10). "Wherein the mobile information terminal is a mobile phone having a contact type IC card and a noncontact type IC card built into the mobile telephone." In (Col 5 lines 25-35 and Col 14 lines 1-16)

Art Unit: 2135

However, Maes is silent on the temporary password is valid for only one transaction.

Gifford disclose a single-use payment order that is valid for only one transaction in (See abstract and Col 2: 60-67). The single-use payment order is the temporary password in the invention.

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify Maes' invention to implement the one-time payment order in Gifford's invention as a password to provide a unique authentication for every transaction.

Furthermore, Neither Maes or Gifford teaches of a noncontact type IC card built into the mobile telephone.

Nevertheless, Pathmasuntharan discloses the "non-contact type and contact type IC card built into the mobile telephone as an electronic wallet to purchase goods in (Col 1 lines 33-50, and Col 3 lines 50-67).

Therefore, it would also have been obvious at the time of the invention was made for one having ordinary skill in the art to modify both Maes' and Gifford's invention to incorporate Pathmasuntharan's teaching to provide a fast and user friendly card reading method for good purchasing.

9. As per claims 6:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 5, wherein the settlement is carried out by the following procedure when a customer incurs a charge at a business establishment: said mobile information

Art Unit: 2135

terminal with said IC card inserted therein by the customer is connected via said application server with said authorization server, and the authentication information stored in this IC card is transmitted to said authorization server, legitimacy of this IC card is decided by said authorization server based on the authentication information stored in said IC card, the personal identification information is input from the input device of said mobile information terminal by the customer and sent to said authorization server after it is verified that said card is legitimate, the settlement information stored in said IC card is input by the customer and sent to said settlement server after the customer is verified by the personal identification information, a temporary password issued from said settlement server based on said personal identification information, settlement information, and reception time is sent to said mobile information terminal and displayed on a display unit thereof (Col 6 line 56 to Col 7 line 56), the displayed temporary password and this time sales information are input from said settlement terminal installed in said business establishment (Col 14 lines 47-67), and a receipt is issued from said settlement terminal of the business establishment by a signal (Col 11 lines 42-45) from said settlement server for a transaction satisfying the settlement conditions after said temporary password and transaction information are checked by said settlement server (Col 15 lines 1-25).

10. As per claim 9/5:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 5, wherein said application server is provided in a service center located between the network of said mobile information terminal and said settlement



network, and said authorization server is provided in this service center (Col 8 lines 1-11).

11. As per claim 10/5:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 5, wherein the authentication function corresponding to said authorization server is provided in said mobile information terminal, and the authentication of legitimacy of said IC card is carried out in said mobile information terminal (Col 7 lines 5-18).

12. As per claim 15:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 4, wherein when the receipt is issued from said settlement terminal of a business establishment by said settlement server, the settlement result is displayed on also a display unit of said mobile information terminal via said application server (Col 5 lines 36-43, Col 11 lines 41-45, and Col 11 lines 58-65).

13. As per claim 16/5:

Maes discloses a card settlement system using a mobile information terminal as set forth in any one of claims 5 or 8, wherein as the authentication of the user by said personal identification information, bio information such as a fingerprint, voiceprint, and retina print of the user is registered in the IC card in advance by a bio information reader, the bio information is read at the time of authentication of the user by this bio

Art Unit: 2135

information reader and compared with the bio information in the IC card, and the user is thereby verified (Col 5 lines 55-67).

14. As per claim 17/5:

Maes discloses a card settlement system using a mobile information terminal as set forth in any one of claims 5, wherein specific information concerning a matter known to only the user is registered in the IC card in advance as the authentication of the user by said personal identification information, the user inputs this specific information at the time of authentication of the user, this is compared with the specific information in the IC card, and the user is thereby verified (Col 7 lines 1-15).

15. As per claim 18:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 5, wherein a read/write function of the IC card is externally given to said mobile information terminal (Col 6 lines 1-5, and Col 6 lines 35-40).

16. As per claim 19:

Maes discloses a card settlement system using a mobile information terminal as set forth in claim 5, wherein a read/write function of the IC card is built-in said mobile information terminal (Col 5 lines 25-35).

Art Unit: 2135

17. As per claim 20:


Maes discloses a card settlement system using mobile information terminal as set forth in claim 5, wherein said mobile information terminal is a mobile telephone (Col 14 lines 12-16).

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son  
Examiner  
Art Unit 2135

  
KIM VU  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100